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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Christopher J. R. Paszty, et al.

Serial No.: Not assigned yet

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For: BETA-LIKE GLYCOPROTEIN HORMONE  
POLYPEPTIDE AND HETERODIMER

Docket No.: A-676B

J1040 U.S. PRO  
09/818954  
03/27/01**INFORMATION DISCLOSURE STATEMENT**Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

As a means of complying with the duty of disclosure, applicants submit a "List of References Cited by Applicant" on a modified PTO-1449 form and provide a copy of each of the listed references for consideration by the Examiner. The relevance of each listed reference is discussed in the following paragraphs.

**Citation B1**

Relates to polynucleotide and polypeptide molecules for "zsig51", which is described as a novel member of the cystine knot family (and corresponds to  $\alpha$ -2 component of heterodimer claimed in present application).

**Citation C1**

Review article which describes the importance of the influence of glycosylation on the biology of FAS, TSH and the gonadotropins (FSH, LH, CG).

**Citation C2**

Describes the basic biology of TSH, its normal physiological function, and the various clinical disorders associated with TSH.

**Citation C3**

Describes the basic biology (amino acids, glycosylation, functions) of the heterodimeric gonadotropins (FSH, LH and CG).

**EXPRESS MAIL CERTIFICATE**"Express Mail" mail labeling number: EL360690500USDate of Deposit: March 27, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 39 U.S.C. 110 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Lynne Buchsbaum  
Printed NameLynne Buchsbaum  
Signature

Citation C4

Describes the genomic structure of the CG gene cluster in humans and demonstrates that there are six genes in humans and that these genes are probably all transcribed.

Citation C5

Describes one of the functions of the glycoprotein hormone free alpha subunit (FAS), which is the differentiation of prolactin-producing cells (lactotrophs) in pituitary tissue.

Citation C6

Describes one of the functions of the glycoprotein hormone free alpha subunit, which is the differentiation of human decidual cells (prolactin-producing cells) from endometrial stromal cells.

Citation C7

Describes one of the functions of the glycoprotein hormone free alpha subunit, which is the stimulation of prolactin secretion from placental decidual cells.

Citation C8

Describes the roles of heterodimeric gonadotropins (FSH, LH and CG) in normal physiology and also in clinical disorders associated with these hormones.

Citation C9

Describes current clinical trial uses of TSH.

Citation C10

Describes current clinical trial uses of CG and the menotropins (FSH and LH).

Citation C11

Describes the three dimensional structures of human glycoprotein hormone alpha polypeptide, CG-beta polypeptide and CG heterodimer. Based on these structures, the glycoprotein hormone family was placed in the cystine knot growth factor structural superfamily.

Citation C12

Describes the critical structural motifs of the growth factor cystine knots, as well as the gene families that comprise the cystine knot growth factor structural superfamily.

Citation C13

Describes one of the functions of glycoprotein hormone free alpha subunit (FAS), which is the stimulation of prolactin-producing cells (lactotrophs) in pituitary tissue.

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under section 1.114, whichever event occurs last. 37 CFR 1.97(b).

Applicants request consideration of this information.

The Commissioner is hereby authorized to charge any filing fees which may be required or credit any overpayment to Deposit Account No. 01-0519 in the name of Amgen Inc.

Respectfully submitted,



Richard J. Mazza  
Attorney for Applicants  
Registration No.: 27,657  
Phone: (805) 447-4112  
Date: March 27, 2001

Please send all future correspondence to:

US Patent Operations/RJM  
Dept. 4300, M/S 27-4-A  
AMGEN INC.  
One Amgen Center Drive  
Thousand Oaks, California 91320-1799